

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference BAT 0078 PB	FOR FURTHER ACTION	
International application No. PCT/US2004/000555	International filing date (day/month/year) 10/01/2004	(Earliest) Priority Date (day/month/year) 10/01/2003
Applicant BATTELLE MEMORIAL INSTITUTE		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (See Box II).

3. **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

a. the figure of the drawings to be published with the abstract is Figure No. 1

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/2004/000555

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A fluid container(6) for use with an electrohydrodynamic spray device(1) and method of using the device(1) are provided. The container(6) comprises at least one reservoir configured for holding a sprayable liquid, at least one interface (23) in fluid communication with the reservoir, at least one manifold(22) comprising at least one fluid path in fluid communication with the interface (23), and at least one nozzle(8). The nozzle(8) comprises at least one spray site in fluid communication with the fluid path. The device(1) is configured to engage the container(6). The container(6) can be configured such that when the container(6) is engaged with the device(1), the device(1) recognizes the sprayable liquid within the container(6) and automatically (or manually) adjusts certain pre-defined settings in accordance with the characteristics of the sprayable liquid.

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B05B5/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category ^a	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/055211 A (PROCTER & GAMBLE) 18 July 2002 (2002-07-18) abstract; figure 1	1,25,28
Y		30,34
X	US 5 865 551 A (BERTINO III COSMO D ET AL) 2 February 1999 (1999-02-02) abstract; figure 1	1,25,28
Y		30,34
X	US 4 749 125 A (TYNER ANTHONY E ET AL) 7 June 1988 (1988-06-07) abstract	1,25,28
Y		30,34
X	US 5 531 384 A (HUNZIGER KARL B ET AL) 2 July 1996 (1996-07-02) abstract; figure 1	1,25,28
Y		30,34
Y	DE 195 22 754 A (SEBALD KURT) 2 January 1997 (1997-01-02) the whole document	30,34

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

4 June 2004

Date of mailing of the international search report

28/06/2004

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 02055211	A	18-07-2002	US	2001038047 A1		08-11-2001
			CA	2432228 A1		18-07-2002
			CN	1484550 T		24-03-2004
			CZ	20031493 A3		12-11-2003
			EP	1349667 A1		08-10-2003
			WO	02055211 A1		18-07-2002
US 5865551	A	02-02-1999		NONE		
US 4749125	A	07-06-1988	AU	1220788 A		10-08-1988
			EP	0299041 A1		18-01-1989
			JP	6038933 B		25-05-1994
			WO	8805344 A1		28-07-1988
US 5531384	A	02-07-1996	AU	662552 B2		07-09-1995
			AU	2438492 A		16-03-1993
			AU	4348193 A		04-01-1994
			BR	9306569 A		12-01-1999
			EP	0680382 A1		08-11-1995
			EP	0646046 A1		05-04-1995
			WO	9303853 A1		04-03-1993
			WO	9325317 A1		23-12-1993
			GB	2274078 A ,B		13-07-1994
			GB	2282769 A ,B		19-04-1995
			GB	2284774 A ,B		21-06-1995
			JP	7507713 T		31-08-1995
			JP	7501972 T		02-03-1995
			US	5411211 A		02-05-1995
			US	5538190 A		23-07-1996
DE 19522754	A	02-01-1997	DE	19522754 A1		02-01-1997